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MARCH 28, 2002

PTAS

WOLF, GREENFIELD & SACKS, P.C.
STEVEN J. HENRY
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BOSTON, MA 02210

Chief Information Officer
Washington, DC 20231
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UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 01/18/2002

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BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

DEUTSCH, ERIK R.

DOC DATE: 12/20/2001

ASSIGNOR:

SMITH, MALCOLM C.

DOC DATE: 12/20/2001

ASSIGNOR:

BUTLER, MICHAEL A.

DOC DATE: 12/20/2001

ASSIGNOR:

SENTURIA, STEPHEN D.

DOC DATE: 12/20/2001

ASSIGNEE:

POLYCHROMIX, INC.
10 STATE STREET
WOBURN, MASSACHUSETTS 01801

SERIAL NUMBER: 09975169

FILING DATE: 10/11/2001

PATENT NUMBER:

ISSUE DATE:

	Initials
File Folder	<input checked="" type="checkbox"/> EMC
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7/12/02

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TARA WASHINGTON, EXAMINER
ASSIGNMENT DIVISION
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02-04-2002

FR SHEET

FORM PTO-1595 U.S.
(Rev. 6-93)
OMB No. 0651-0011 (exp. 4/94)

101971372

DEPARTMENT OF COMMERCE
Patent and Trademark Office

To the Commissioner for Patents : Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):
**Erik R. Deutsch, Malcolm C. Smith,
Michael A. Butler and Stephen D. Senturia**

2. Name and address of receiving party(ies)
Name: **Polychromix, Inc.**

Internal Address:

Street Address: **10 State Street
Woburn, MA 01801**

Additional name(s) of conveying party(ies) attached? ☐ Yes ☐ No

3. Nature of conveyance: **1-18-02**
☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other _____

Execution Date: **12/20/01**

Additional name(s) & addresses(es) attached? ☐ Yes ☒ No

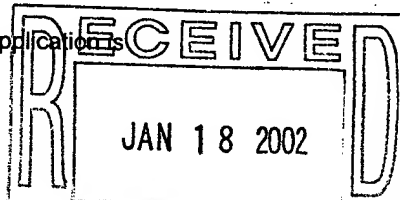
4. Application number(s) or patent number(s): **09/975,169**

If this document is being filed together with a new application, the execution date of the application is

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☐ No



5. Name and address of party to whom correspondence
Concerning document should be mailed:
Name: **Steven J. Henry**
Address: **WOLF, GREENFIELD & SACKS, P.C.
Federal Reserve Plaza
600 Atlantic Avenue
Boston, MA 02210**

6. Total number of applications and patents involved: **[1]**

7. Total fee (37 CFR 3.41) **\$ 40.00**

☒ Enclosed

☐ Authorized to be charged to deposit account

The Commissioner is authorized to charge:

8. Deposit Account No: 23/2825

01/31/2002 DBYRNE 00000094 09975169

01 FEB 2002 40.00 DP

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9. Statement and signature

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Steven J. Henry

Name of Person Signing

Signature

Date

12/28/01

Total number of pages including cover sheet, attachments, and document: **[3]**

Mail documents to be recorded with required cover sheet information to:

Box Assignment
Honorable Commissioner of Patents,
Washington, D.C. 20231

ASSIGNMENT

In consideration of good and valuable consideration, the receipt of which is hereby acknowledged, we the undersigned Erik R. Deutsch, Malcolm C. Smith, Michael A. Butler, and Stephen D. Senturia hereby

Sell, assign and transfer to Polychromix, Inc., a Delaware corporation having a place of business at 10 State Street, Woburn, MA 01801, its successors, assigns and legal representatives, all hereinafter referred to as the Assignee, the entire right, title and interest for the United States and all foreign countries, in and to any and all inventions which are disclosed in the application for United States Letters Patent filed in the United States Patent and Trademark Office on October 11, 2001 under Serial No. 09/975,169 and entitled **ACTUATABLE DIFFRACTIVE OPTICAL PROCESSOR**, and in and to said application and all divisional, continuing, substitute, renewal, reissue and all other applications for Letters Patent which have been or shall be filed in the United States and all foreign countries on any of said inventions; and in and to all original and reissued patents which have been or shall be issued in the United States and all foreign countries on said inventions including the right to apply for patent rights in each foreign country and all rights to priority.

We agree that said Assignee may apply for and receive Letters Patent for said inventions in its own name; and when requested, without charge to but at the expense of said Assignee, we agree to carry out in good faith the intent and purpose of this assignment, by executing all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all said inventions, by executing all rightful oaths, assignments, powers of attorney and other papers, by communicating to said Assignee all facts known to us relating to said inventions and the history thereof, and generally by doing everything possible which said Assignee shall consider desirable for aiding in securing and maintaining proper patent protection for said inventions and for vesting title to said inventions and all applications for patents and all patents on said inventions, in said Assignee.

We hereby request the Honorable Commissioner of Patents and Trademarks to issue said Letters Patent to said Assignee.

We covenant with said Assignee that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by us and that full right to convey the same as herein expressed is possessed by us.

12/20/01
Date

Erik R. Deutsch
Erik R. Deutsch

STATE OF MA:

COUNTY OF MIDDLESEX:

Subscribed and sworn to before me this 20th day of DECEMBER 2001

SEAL

Christina McGuire
Notary Public
My Commission Expires 12-25-2002

12/20/01
Date

Malcolm C. Smith
Malcolm C. Smith

STATE OF MA:

COUNTY OF Middlesex:

MICHAEL CROSBY
NOTARY PUBLIC
My Commission Expires Nov. 10, 2006

Subscribed and sworn to before me this 20 day of December 2001

SEAL

[Signature]
Notary Public
My Commission Expires _____

12/20/01
Date

Michael A. Butler
Michael A. Butler

STATE OF MA:

COUNTY OF MIDDLESEX:

Subscribed and sworn to before me this 20th day of DECEMBER 2001

SEAL

Christina McGuire
Notary Public
My Commission Expires 12-25-2002

12/20/01
Date

Stephen D. Senturia
Stephen D. Senturia

STATE OF MA:

COUNTY OF MIDDLESEX:

Subscribed and sworn to before me this 20th day of DECEMBER 2001

SEAL

Christina McGuire
Notary Public
My Commission Expires 12-25-2002

Calculation of Sale Price of Horse Hat Patent

Total value \$908,247.59

We have rounded down to \$750,000

The total value is based on the following assumptions:

Income per unit sold = \$ 35.00 -- assumes a \$70 retail price and 50% markup

Discount rate = 5%

assumed royalty rate = 6%

year	units sold	income per year
1	100,000	210,000
2	120,000	252,000
3	100,000	210,000
4	80,000	168,000
5	60,000	126,000
6	40,000	84,000
7	20,000	42,000
8	10,000	21,000